

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/564,975
Source: IFWP
Date Processed by STIC: 02/07/2007

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IFWP

RAW SEQUENCE LISTING

DATE: 02/07/2007

PATENT APPLICATION: US/10/564,975

TIME: 10:04:58

Input Set : A:\284602.sub.seq.list.081706.txt

Output Set: N:\CRF4\02072007\J564975.raw

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3 <110> APPLICANT: INSTITUT PASTEUR
4     ALZARI PEDRO
5     BOITEL BRIGITTE
6     VILLARINO ANDREA
7     FERNANDEZ PABLO
8     COLE STEWART
11 <120> TITLE OF INVENTION: PKNB KINASE AND PSTP PHOSPHATASE AND METHODS OF IDENTIFYING
12     INHIBITORY SUBSTANCES
14 <130> FILE REFERENCE: 284602US0PCT
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/564,975
C--> 17 <141> CURRENT FILING DATE: 2006-01-18
19 <150> PRIOR APPLICATION NUMBER: US 60/487,943
20 <151> PRIOR FILING DATE: 2003-07-18
22 <160> NUMBER OF SEQ ID NOS: 20
24 <170> SOFTWARE: PatentIn version 3.2
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 514
28 <212> TYPE: PRT
29 <213> ORGANISM: Mycobacterium tuberculosis
31 <400> SEQUENCE: 1
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34 1      5      10      15
36 Gly Leu Val Arg Ala Asn Asn Glu Asp Ser Val Tyr Ala Gly Ala Arg
37      20      25      30
39 Leu Leu Ala Leu Ala Asp Gly Met Gly Gly His Ala Ala Gly Glu Val
40      35      40      45
42 Ala Ser Gln Leu Val Ile Ala Ala Leu Ala His Leu Asp Asp Asp Glu
43      50      55      60
45 Pro Gly Gly Asp Leu Leu Ala Lys Leu Asp Ala Ala Val Arg Ala Gly
46 65      70      75      80
48 Asn Ser Ala Ile Ala Ala Gln Val Glu Met Glu Pro Asp Leu Glu Gly
49      85      90      95
51 Met Gly Thr Thr Leu Thr Ala Ile Leu Phe Ala Gly Asn Arg Leu Gly
52      100     105     110
54 Leu Val His Ile Gly Asp Ser Arg Gly Tyr Leu Leu Arg Asp Gly Glu
55      115     120     125
57 Leu Thr Gln Ile Thr Lys Asp Asp Thr Phe Val Gln Thr Leu Val Asp
58      130     135     140
60 Glu Gly Arg Ile Thr Pro Glu Glu Ala His Ser His Pro Gln Arg Ser
61 145     150     155     160
63 Leu Ile Met Arg Ala Leu Thr Gly His Glu Val Glu Pro Thr Leu Thr
64      165     170     175
66 Met Arg Glu Ala Arg Ala Gly Asp Arg Tyr Leu Leu Cys Ser Asp Gly

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67          180          185          190
69 Leu Ser Asp Pro Val Ser Asp Glu Thr Ile Leu Glu Ala Leu Gln Ile
70          195          200          205
72 Pro Glu Val Ala Glu Ser Ala His Arg Leu Ile Glu Leu Ala Leu Arg
73          210          215          220
75 Gly Gly Gly Pro Asp Asn Val Thr Val Val Val Ala Asp Val Val Asp
76 225          230          235          240
78 Tyr Asp Tyr Gly Gln Thr Gln Pro Ile Leu Ala Gly Ala Val Ser Gly
79          245          250          255
81 Asp Asp Asp Gln Leu Thr Leu Pro Asn Thr Ala Ala Gly Arg Ala Ser
82          260          265          270
84 Ala Ile Ser Gln Arg Lys Glu Ile Val Lys Arg Val Pro Gln Ala
85          275          280          285
87 Asp Thr Phe Ser Arg Pro Arg Trp Ser Gly Arg Arg Leu Ala Phe Val
88          290          295          300
90 Val Ala Leu Val Thr Val Leu Met Thr Ala Gly Leu Leu Ile Gly Arg
91 305          310          315          320
93 Ala Ile Ile Arg Ser Asn Tyr Tyr Val Ala Asp Tyr Ala Gly Ser Val
94          325          330          335
96 Ser Ile Met Arg Gly Ile Gln Gly Ser Leu Leu Gly Met Ser Leu His
97          340          345          350
99 Gln Pro Tyr Leu Met Gly Cys Leu Ser Pro Arg Asn Glu Leu Ser Gln
100          355          360          365
102 Ile Ser Tyr Gly Gln Ser Gly Gly Pro Leu Asp Cys His Leu Met Lys
103          370          375          380
105 Leu Glu Asp Leu Arg Pro Pro Glu Arg Ala Gln Val Arg Ala Gly Leu
106 385          390          395          400
108 Pro Ala Gly Thr Leu Asp Asp Ala Ile Gly Gln Leu Arg Glu Leu Ala
109          405          410          415
111 Ala Asn Ser Leu Leu Pro Pro Cys Pro Ala Pro Arg Ala Thr Ser Pro
112          420          425          430
114 Pro Gly Arg Pro Ala Pro Pro Thr Thr Ser Glu Thr Thr Glu Pro Asn
115          435          440          445
117 Val Thr Ser Ser Pro Ala Ser Pro Ser Pro Thr Thr Ser Ala Pro Ala
118          450          455          460
120 Pro Thr Gly Thr Thr Pro Ala Ile Pro Thr Ser Ala Ser Pro Ala Ala
121 465          470          475          480
123 Pro Ala Ser Pro Pro Thr Pro Trp Pro Val Thr Ser Ser Pro Thr Met
124          485          490          495
126 Ala Ala Leu Pro Pro Pro Pro Gln Pro Gly Ile Asp Cys Arg Ala
127          500          505          510
129 Ala Ala
133 <210> SEQ ID NO: 2
134 <211> LENGTH: 382
135 <212> TYPE: PRT
136 <213> ORGANISM: Homo sapiens
138 <400> SEQUENCE: 2
140 Met Gly Ala Phe Leu Asp Lys Pro Lys Met Glu Lys His Asn Ala Gln
141 1          5          10          15

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143 Gly Gln Gly Asn Gly Leu Arg Tyr Gly Leu Ser Ser Met Gln Gly Trp
144          20          25          30
146 Arg Val Glu Met Glu Asp Ala His Thr Ala Val Ile Gly Leu Pro Ser
147          35          40          45
149 Gly Leu Glu Ser Trp Ser Phe Phe Ala Val Tyr Asp Gly His Ala Gly
150          50          55          60
152 Ser Gln Val Ala Lys Tyr Cys Cys Glu His Leu Leu Asp His Ile Thr
153 65          70          75          80
155 Asn Asn Gln Asp Phe Lys Gly Ser Ala Gly Ala Pro Ser Val Glu Asn
156          85          90          95
158 Val Lys Asn Gly Ile Arg Thr Gly Phe Leu Glu Ile Asp Glu His Met
159          100         105         110
161 Arg Val Met Ser Glu Lys Lys His Gly Ala Asp Arg Ser Gly Ser Thr
162          115         120         125
164 Ala Val Gly Val Leu Ile Ser Pro Gln His Thr Tyr Phe Ile Asn Cys
165          130         135         140
167 Gly Asp Ser Arg Gly Leu Leu Cys Arg Asn Arg Lys Val His Phe Phe
168 145          150         155         160
170 Thr Gln Asp His Lys Pro Ser Asn Pro Leu Glu Lys Glu Arg Ile Gln
171          165         170         175
173 Asn Ala Gly Gly Ser Val Met Ile Gln Arg Val Asn Gly Ser Leu Ala
174          180         185         190
176 Val Ser Arg Ala Leu Gly Asp Phe Asp Tyr Lys Cys Val His Gly Lys
177          195         200         205
179 Gly Pro Thr Glu Gln Leu Val Ser Pro Glu Pro Glu Val His Asp Ile
180          210         215         220
182 Glu Arg Ser Glu Glu Asp Asp Gln Phe Ile Ile Leu Ala Cys Asp Gly
183 225          230         235         240
185 Ile Trp Asp Val Met Gly Asn Glu Glu Leu Cys Asp Phe Val Arg Ser
186          245         250         255
188 Arg Leu Glu Val Thr Asp Asp Leu Glu Lys Val Cys Asn Glu Val Val
189          260         265         270
191 Asp Thr Cys Leu Tyr Lys Gly Ser Arg Asp Asn Met Ser Val Ile Leu
192          275         280         285
194 Ile Cys Phe Pro Asn Ala Pro Lys Val Ser Pro Glu Ala Val Lys Lys
195          290         295         300
197 Glu Ala Glu Leu Asp Lys Tyr Leu Glu Cys Arg Val Glu Glu Ile Ile
198 305          310         315         320
200 Lys Lys Gln Gly Glu Gly Val Pro Asp Leu Val His Val Met Arg Thr
201          325         330         335
203 Leu Ala Ser Glu Asn Ile Pro Ser Leu Pro Pro Gly Gly Glu Leu Ala
204          340         345         350
206 Ser Lys Arg Asn Val Ile Glu Ala Val Tyr Asn Arg Leu Asn Pro Tyr
207          355         360         365
209 Lys Asn Asp Asp Thr Asp Ser Thr Ser Thr Asp Asp Met Trp
210          370         375         380
213 <210> SEQ ID NO: 3
214 <211> LENGTH: 271
215 <212> TYPE: PRT

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216 <213> ORGANISM: Mycobacterium tuberculosis
218 <400> SEQUENCE: 3
220 Ile Thr Arg Asp Val Gln Val Pro Asp Val Arg Gly Gln Ser Ser Ala
221 1 5 10 15
223 Asp Ala Ile Ala Thr Leu Gln Asn Arg Gly Phe Lys Ile Arg Thr Leu
224 20 25 30
226 Gln Lys Pro Asp Ser Thr Ile Pro Pro Asp His Val Ile Gly Thr Asp
227 35 40 45
229 Pro Ala Ala Asn Thr Ser Val Ser Ala Gly Asp Glu Ile Thr Val Asn
230 50 55 60
232 Val Ser Thr Gly Pro Glu Gln Arg Glu Ile Pro Asp Val Ser Thr Leu
233 65 70 75 80
235 Thr Tyr Ala Glu Ala Val Lys Lys Leu Thr Ala Ala Gly Phe Gly Arg
236 85 90 95
238 Phe Lys Gln Ala Asn Ser Pro Ser Thr Pro Glu Leu Val Gly Lys Val
239 100 105 110
241 Ile Gly Thr Asn Pro Pro Ala Asn Gln Thr Ser Ala Ile Thr Asn Val
242 115 120 125
244 Val Ile Ile Ile Val Gly Ser Gly Pro Ala Thr Lys Asp Ile Pro Asp
245 130 135 140
247 Val Ala Gly Gln Thr Val Asp Val Ala Gln Lys Asn Leu Asn Val Tyr
248 145 150 155 160
250 Gly Phe Thr Lys Phe Ser Gln Ala Ser Val Asp Ser Pro Arg Pro Ala
251 165 170 175
253 Gly Glu Val Thr Gly Thr Asn Pro Pro Ala Gly Thr Thr Val Pro Val
254 180 185 190
256 Asp Ser Val Ile Glu Leu Gln Val Ser Lys Gly Asn Gln Phe Val Met
257 195 200 205
259 Pro Asp Leu Ser Gly Met Phe Trp Val Asp Ala Glu Pro Arg Leu Arg
260 210 215 220
262 Ala Leu Gly Trp Thr Gly Met Leu Asp Lys Gly Ala Asp Val Asp Ala
263 225 230 235 240
265 Gly Gly Ser Gln His Asn Arg Val Val Tyr Gln Asn Pro Pro Ala Gly
266 245 250 255
268 Thr Gly Val Asn Arg Asp Gly Ile Ile Thr Leu Arg Phe Gly Gln
269 260 265 270
272 <210> SEQ ID NO: 4
273 <211> LENGTH: 271
274 <212> TYPE: PRT
275 <213> ORGANISM: Mycobacterium leprae
277 <400> SEQUENCE: 4
279 Asn Thr Arg Asp Val Gln Val Pro Asp Val Arg Gly Gln Val Ser Ala
280 1 5 10 15
284 Asp Ala Ile Ser Ala Leu Gln Asn Arg Gly Phe Lys Thr Arg Thr Leu
285 20 25 30
287 Gln Lys Pro Asp Ser Thr Ile Pro Pro Asp His Val Ile Ser Thr Glu
288 35 40 45
290 Pro Gly Ala Asn Ala Ser Val Gly Ala Gly Asp Glu Ile Thr Ile Asn
291 50 55 60

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293 Val Ser Thr Gly Pro Glu Gln Arg Glu Val Pro Asp Val Ser Ser Leu
294 65                               70                               75                               80
296 Asn Tyr Thr Asp Ala Val Lys Lys Leu Thr Ser Ser Gly Phe Lys Ser
297                               85                               90                               95
299 Phe Lys Gln Ala Asn Ser Pro Ser Thr Pro Glu Leu Leu Gly Lys Val
300                               100                              105                              110
302 Ile Gly Thr Asn Pro Ser Ala Asn Gln Thr Ser Ala Ile Thr Asn Val
303                               115                              120                              125
305 Ile Thr Ile Ile Val Gly Ser Gly Pro Glu Thr Lys Gln Ile Pro Asp
306                               130                              135                              140
308 Val Thr Gly Gln Ile Val Glu Ile Ala Gln Lys Asn Leu Asn Val Tyr
309 145                               150                               155                               160
311 Gly Phe Thr Lys Phe Ser Gln Ala Ser Val Asp Ser Pro Arg Pro Thr
312                               165                               170                               175
314 Gly Glu Val Ile Gly Thr Asn Pro Pro Lys Asp Ala Thr Val Pro Val
315                               180                              185                              190
317 Asp Ser Val Ile Glu Leu Gln Val Ser Lys Gly Asn Gln Phe Val Met
318                               195                              200                              205
320 Pro Asp Leu Ser Gly Met Phe Trp Ala Asp Ala Glu Pro Arg Leu Arg
321                               210                              215                              220
323 Ala Leu Gly Trp Thr Gly Val Leu Asp Lys Gly Pro Asp Val Asp Ala
324 225                               230                               235                               240
326 Gly Gly Ser Gln His Asn Arg Val Ala Tyr Gln Asn Pro Pro Ala Gly
327                               245                               250                               255
329 Ala Gly Val Asn Arg Asp Gly Ile Ile Thr Leu Lys Phe Gly Gln
330                               260                              265                              270
333 <210> SEQ ID NO: 5
334 <211> LENGTH: 274
335 <212> TYPE: PRT
336 <213> ORGANISM: Corynebacterium glutamicum
338 <400> SEQUENCE: 5
340 Ser Thr Ala Thr Ser Ala Ile Pro Asn Val Glu Gly Leu Pro Gln Gln
341 1                               5                               10                               15
343 Glu Ala Leu Thr Glu Leu Gln Ala Ala Gly Phe Val Val Asn Ile Val
344                               20                               25                               30
346 Glu Glu Ala Ser Ala Asp Val Ala Glu Gly Leu Val Ile Arg Ala Asn
347                               35                               40                               45
349 Pro Ser Val Gly Ser Glu Ile Arg Gln Gly Ala Thr Val Thr Ile Thr
350                               50                               55                               60
352 Val Ser Thr Gly Arg Glu Met Ile Asn Ile Pro Asp Val Ser Gly Met
353 65                               70                               75                               80
355 Thr Leu Glu Asp Ala Ala Arg Ala Leu Glu Asp Val Gly Leu Ile Leu
356                               85                               90                               95
358 Asn Gln Asn Val Arg Glu Glu Thr Ser Asp Asp Val Glu Ser Gly Leu
359                               100                              105                              110
361 Val Ile Asp Gln Asn Pro Glu Ala Gly Gln Glu Val Val Val Gly Ser
362                               115                              120                              125
364 Ser Val Ser Leu Thr Met Ser Ser Gly Thr Glu Ser Ile Arg Val Pro
365                               130                              135                              140

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VERIFICATION SUMMARY

DATE: 02/07/2007

PATENT APPLICATION: US/10/564,975

TIME: 10:04:59

Input Set : A:\284602.sub.seq.list.081706.txt

Output Set: N:\CRF4\02072007\J564975.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application Number

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date